

### Sample Study Plan for BEng(CompSc) [for 2018-19 intake and thereafter] (for students with HKDSE Math Extended Module 1 or 2 \*\*)

|                   |  | Semester 1   |   | Semester 2 |  |
|-------------------|--|--|---|------------|--|
| Year 1<br>(60 cu) | <b>UG5 Requirements (18 cu)</b><br><br>Engineering (42 cu)                                 | MATH1851 / Calculus and ordinary differential equations /<br>MATH1853 Linear algebra, probability and statistics<br>ENGG1300 / Fundamental mechanics /<br>ENGG1310 Electricity and electronics<br>ENGG1330 Computer programming I<br><b>CAES1000 / Core University English /</b><br>ENGG1320 Engineers in the modern world<br><b>CC University Common Core</b> | MATH1851 / Calculus and ordinary differential equations /<br>MATH1853 Linear algebra, probability and statistics<br>ENGG1300 / Fundamental mechanics /<br>ENGG1310 Electricity and electronics<br>ENGG1340 Computer programming II<br><b>CAES1000 / Core University English /</b><br>ENGG1320 Engineers in the modern world<br><b>CC University Common Core</b> |            |  |
| Year 2<br>(60 cu) | <b>UG5 Requirements (24 cu)</b><br><br>CS Core (24 cu)<br><br>Electives (12 cu)            | COMP2121 Discrete mathematics<br>COMP2396 Object-oriented programming and Java<br><b>CS Elective Elective course in computer science</b><br><b>CC University Common Core</b><br><b>CC University Common Core</b>   | COMP2119 Introduction to data structures and algorithms<br>COMP2120 Computer organization<br><b>Free Elective Elective course in any disciplines</b><br><b>CC University Common Core</b><br><b>CC University Common Core</b>  |            |  |
| Year 3<br>(60 cu) | <b>UG5 Requirements (6 cu)</b><br><br>CS Core (30 cu)<br><br>Electives (24 cu)             | COMP3230 Principles of operating systems<br>COMP3278 Introduction to database management systems<br>COMP3297 Software engineering<br><b>CENG9001 / Practical Chinese for engineering students /</b><br><b>Free Elective Elective course in any disciplines</b><br><b>CS Elective Elective course in computer science</b>                                       | COMP3234 Computer and communication networks<br>COMP3250 Design and analysis of algorithms<br><b>CS Elective Elective course in computer science</b><br><b>CENG9001 / Practical Chinese for engineering students /</b><br><b>Free Elective Elective course in any disciplines</b><br><b>Free Elective Elective course in any disciplines</b>                    |            |  |
|                   | Summer# (0 cu)   | COMP3410   | Internship  |            |  |
| Year 4<br>(60 cu) | <b>UG5 Requirements (6 cu)</b><br><br>Capstone Experience (12 cu)<br><br>Electives (42 cu) | COMP4801 Final year project<br><b>CAES9542 Technical English for computer science</b><br><b>CS Elective Elective course in computer science</b><br><b>CS Elective Elective course in computer science</b><br><b>Free Elective Elective course in any disciplines</b>   | COMP4801 Final year project<br><b>CS Elective Elective course in computer science</b><br><b>Free Elective Elective course in any disciplines</b><br><b>Free Elective Elective course in any disciplines</b><br><b>Free Elective Elective course in any disciplines</b>  |            |  |

\*\* For students who achieved Level 2 or above in HKDSE Math Extended Module 1 or 2; for other qualifications, please consult Faculty for advices

# Student can take the Internship course in the 2<sup>nd</sup> summer provided they can identify a suitable summer placement (which is approved by the department).